

**SYSTEM AND METHOD OF A MINIMIZED REPRESENTATION OF A
SECTOR VARIABLE-BITS-PER-INCH TABLE**

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ABSTRACT OF THE DISCLOSURE

Systems and methods are provided through which a minimized sector variable-bits-per-inch table (MSVBPI) is generated during the design of the mass storage device. The MSVBPI table maps variable-bits-per-inch parameters to a head and zone. The retrieval of parameters is accomplished entirely from the MSVBPI table. Furthermore, 10 the MSVBPI table is stored on the recording medium of the mass storage device. The firmware of the mass storage device is stored in the read-only-memory of the mass storage device. During the design of the mass storage device, after an initial compilation of the firmware, the firmware does not need to be recompiled when the content of the MSVBPI table is changed because the content of the MSVBPI and the firmware do not 15 affect the content of each other.

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